Original / Duplicate / Triplicate

CONTRACT CERTIFICATE

(For Other Works)

No. 2nd & Final bill

YNK-DBR No. 161 Dated 29.12.2020

Date .....20.....

Division: Yelahanka. Sub Division: Yelahanka.

Bill Received No..... Dated..... Cash Book Voucher No..... dated.....

Scheduled Docket No.....

Name of Work: Improvements to Roads, drains and othar developmental works in ward No-01 & 02. Under SWM head in Chief Minister Nava Nagarothan Grands of Yalahanka divison. (Package - 07)

Job Code No: 002-20-000036 **Est. cost:** 1050.00 lakhs

P- 3747

Name of Contractor and Full Address : M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

Work Order No: **BBMP/EE/YNK.D/W.O/ /2020-21, Dated :**

Certified that the measurements were taken by me on 02-12-2020 and recorded in pages 492809 to 492820 of measurement Book No. 4929 and that the work is satisfactorily executed.

Contractor **Officer-in-charge of work**

Certified that the measurements were taken by me on 02/12/2020 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account II have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Asst. Executive Engineer BBMP Yelahanka Sub Division

Total Amount 103527814-00

Previous Bill 75524500

If Memorandum of Payment **Sub Division Officer**

1) Total value of work done or supplies made as per account within
2) Deduct amount to be held in reserve being..... percent Rs.....
3) Deduct amount to be held in Balance
4) Deduct Payment :
   a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S D No.....
   Amount adjusted towards cash advance recovery of
   b) Payments cost store or other materials supplied
   Now made recovery of amount creditable to this/other work
   Amount paid on this bill Cheque/Cash
5) Balance being unpaid value of work done held in reserve
6) Deduct cash advance made on the office Cash Book Voucher No.....
   date .....less adjustments
7) Net amount due to or from contractor

Unadjusted items

8) Advance to contractor for materials brought to site (as detailed) within value of Governme materials supplied

Prev Bill

Gross Amt =Rs	28003711-00
FSD =Rs	—
CGST = Rs	2500334-00
SGST = Rs	2500334-00
IT = Rs	560054-00
LC = Rs	280037-00
CBT = Rs	28003-00
Royalty =Rs	358432-00
L D = Rs	1726564-00
Net Amt=Rs	26276147-00

Contractor's Signature

Received Rs.....(in words)

By Cash and by adjustment of Payment as per memorandum.

Witnesses :

1.

2.

Dated..... Signature of Contractor

(For use in the Office)

Audited & Admitted for Rs. 28003711-00

Paid by me by cheque No.....Dated..... 26276147-00 by Cheque

Cash Rs.....Dated..... and Rs. 1726564-00 by adjustment

Accts. Supdt. Yelahanka Division BBMP

Exe. Engineer Yelahanka Division

Executive Engineer

Initials of Officer Making Payment

ABSTRACT OF BILL - 2nd and Final

Name of Work: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothan grands yalahanka division.(Package -07)

Name of Agency: Sri. B B Umesh (M/s SMLP Asphalts)

Item No	Description of Item	unit	Modified Schedule B			Previous Measurements		Present Measurements		Total upto date	
			Qty	Rate	Amount	Qty	Amount	Qty	Amount	Qty	Amount
1	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications	Cum	4836.62	131.87	637805.45	4101.95	540924.67	734.16	96813.68	4836.11	637738.35
2	KSRB 2-2.1 : Earthwork excavation by manual means for foundation of buildings, culverts, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications	Cum	5506.07	419.02	2307151.61	4750.57	1990582.01	755.26	316468.00	5505.82	2307050.01
3	KSRB 4-1.7 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.69 cum and fine aggregtes @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications.	Cum	928.74	5908.92	5487847.41	796.82	4708360.41	131.89	779339.28	928.71	5487699.69
4	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications.	Cum	1951.02	7637.41	14900747.30	1685.96	12876367.00	265.00	2023940.38	1950.96	1490030738
5	KSRRB M 2200-6 Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.	Ton	130.04	75943.33	9875367.81	105.52	8013179.75	24.46	1857651.78	129.98	9870831.53

Item No	Description of Item	unit									
			Qty	Rate	Amount	Qty	Amount	Qty	Amount	Qty	Amount
6	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting , including form work, cost of alll materials, labour,hire charges of chinery,loading ,unloading ,lead and lift, transportation etc ,copmplete.	Sqm	4928.20	2453.85	12093051.30	4141.64	10162951.04	786.50	1929953.03	4928.14	1209290407
7	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge.	Sqm	278.63	5688.90	1585069.76	227.40	1293655.86	51.00	290133.90	278.40	1583789.76
8	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete	Nos	9499.00	454.10	4313495.90	8375.00	3803087.50	1124.00	510408.40	9499.00	4313495.10
9	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications.	Sqm	1701.81	89.04	151529.16	1498.08	133389.04	203.65	18133.00	1701.73	151522.04
10	KSRRB M600-1. Construction of dry lean cement concrete mix CC 1:5:10 with OPC cement @160Kgs, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub- base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383) aggregate cement ratio not to exceed 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications.	Cum	534.41	3990.11	2132358.68	267.13	1065887.06	267.17	1066029.71	534.30	2131916.57

Item No	Description of Item	unit									
			Qty	Rate	Amount	Qty	Amount	Qty	Amount	Qty	Amount
11	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to 18:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per	Cum	528.31	5471.51	2890672.60	261.13	1428778.14	267.17	1461812.38	528.30	2890590.13
12	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing by mix in place method byrotavator at OMC, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications	Cum	2083.88	1947.75	4058867.53	1631.54	3177828.14	452.34	881039.39	2083.88	4058867.13
	Above 125%	Cum	453.91	1947.75	884110.02			453.74	883768.68	453.74	883768.68
13	KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications	Cum	2083.88	2101.34	4378929.89	1665.20	3499142.44	418.68	879787.46	2083.88	4378929.13
	Above 125%	Cum	1708.82	2101.34	3590809.51			1708.70	3590562.07	1708.70	3590562.07
14	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications.	Sqm	13892.50	35.62	494850.85	11084.16	394817.78	2808.34	100033.07	13892.50	494850.85
	Above 125%	Sqm	6442.42	35.62	229478.82			6441.89	229459.94	6441.89	229459.94
15	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and /or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications.	Sqm	8454.30	5.90	49880.37	8453.00	49872.70	0.00	0.00	8453.00	49872.70

Item No	Description of Item	unit	Qty	Rate	Amount	Qty	Amount	Qty	Amount	Qty	Amount
16	KSRRB M500-17. Providing and laying Dense Graded Bituminous Macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications. MORTH Specification No. 507. Using 100/120 TPH capacity HMP with sensor paver Gr-II (50 mm to 75mm) with 4.5% VG-30 Bitumen.	Cum	909.53	8001.36	7277436.95	727.48	5820829.37	182.05	1456607.58	909.53	7277436.95
	Above 125%	Cum	280.79	8001.36	2246711.88			280.58	2245031.59	280.58	2245031.59
17	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 0.25 kg per sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.	Sqm	26008.06	13.36	347467.61	16758.50	223893.49	9249.39	123571.78	26007.88	347465.28
18	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP- 53-2015.do- using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% ofVG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic).	Cum	1040.32	9134.39	9502708.70	670.34	6123145.17	369.89	3378710.38	1040.23	9501855.15
19	Providing and fixing of retro - reflectorised cautionary, mandatory and informatory sign as per IRC:67 made of high intensity grade sheeting vide Clause 801.3, fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 em x 45 cm x 60 em, 60 cm below ground level as per approved drawing	Nos	0.00	144.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	KSRRB M800-4. Direction and Place Identification Signs / Project information Board with size more than 0.9 sqm Size Board:- Providing and erecting direction and place identification retro-reflectorised sign as per IRC:67 made of high intensity grade sheeting vide Clause 801.3, fixed over aluminium sheeting, 2 mm thick with area not exceeding 0.9 sqm supported on a mild steel single angle iron post 75 x 75 x 6 mm , 2 Nos. firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 x 45 x 60 em, 60 em below ground level as per approved drawing.	Nos	19.00	7945.71	150968.49	19.00	150968.49	0.00	0.00	19.00	150968.49

Item No	Description of Item	unit	Qty	Rate	Amount	Qty	Amount	Qty	Amount	Qty	Amount
21	KSRRB M800-13. Road Marking with Hot Applied 'Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications.	Sqm	1329.33	477.48	634726.10	434.85	207632.18	894.48	427093.92	1329.33	634726.10
	Above 125%	Sqm	51.40	477.48	24542.47			45.01	21492.57	45.01	21492.57
22	for Rain water harvesting work including 40mm jelly, 20mm jelly coarse sand, fine sand, 12.50 mm chips as per data rates	Nos	47.00	21926.10	1030526.70	35.00	767413.50	12.00	263113.20	47.00	1030526.70
23	KSRRB M200-24. Dismantling of cement concrere pavement by mechanical means using pneumatic tools ,breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials separately complete as per specifications.	Cum	346.80	1000.59	347004.61	346.80	347004.61	0.00	0.00	346.80	347004.61
24	Removing &refixing stone slab of drain	Sqm	0.00	1115.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	Providing granite slabs of selected quality roughly fressed and fixed in cement mortar (1:6) including fixing curing etc., complete - do- 10 cms thick (pagNo27. Ino 5.31.2) + (KSRB 5-8.2: Providing two line dressing to granite stone slab/ granite stone masonry as per specifications.	Sqm	0.00	2678.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	KSRB M300-19 Removal of unserviceable soil including excavation, loading and disposal but excluding replacement by suitable soil which shall be paid separately as per clause 300.5	Cum	0.00	37.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	Fabricating, providing and erecting in position of Hot Dip Galvanised Gate Using 72X72X4.8mm Sq.GI Pipe frame with top pipe bending in heavy duty hydraulic press with sand packing and hot bending to from double arch as per drawing profile,20mm hot dip galavanised forged ornamental design in between shown in the drawing including providing hot dip galvanised forged ornamental designin between sq roads and heads at top, middle and bottom. intermediate supports of 75X12mm and 50X6mm arch bent to hot dip galvanised flats. the work is inclusive of throughing G.I flat GI sq roads placing ,welding all the joints including grinding, finishing metal patty, painting two coats enamel painting. the rate is inclusive of all materials like GI Sq roads, GI forged designs etc., heavy duty hinges are made out of 75mm solid sq. block assembled with 20mm dia bearing in three places for each flop. Heavy duty locking arrangements at low places including cost of labour, painting, erecting charges using hoist pulley cranes with all lead and lift, loading, transporttion, unloading, scaffolding charges and all other incidental charges for	Sqm	68.00	9601.20	652881.60	68.00	652881.60	0.00	0.00	68.00	652881.60

Item No	Description of Item	unit									
			Qty	Rate	Amount	Qty	Amount	Qty	Amount	Qty	Amount
	EIRL										
E1	Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 – DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer	Nos	480.00	357.22	171465.60	0.00	0.00	480.00	171465.60	480.00	171465.60
E2	KSRRB M 300-53. Construction of Embankment with approved materials gravel/murrum with all lift , transporting to site, spreading grading to required slope and compacting to meet requirement Table 300-2 complete as per specification , including cost of gravel/ murrum, watering charges & compaction by vibratory roller to 95% of modified proctors density. MORTH Specification No.305,I.No.-19.60,P.No - 147	Cum	526.71	344.50	181452.63	0.00	0.00	526.69	181443.33	526.69	181443.33
	Net Amount				92629917.31		67432591.96		25002420.77		9261645606
	Add 12% GST				11115590.08		8091911.04		3000290.49		1111397473
	Grand Total Amount				103745507.39		75524503.00		28002711.26		10373043078

9243501.7

1092201.5

10352721.4.25

Certificate:

1 Certified that the contractor has done the work satisfactorly

2 Certified that the debris has been removed from the site

3 Certified that the No dues from the contractor

4 Certified that the above item of the work were not claimed in any other bill

Contractor Representative

Asst Engineer

NEWZEN CONSULTANT Bangalore

Consultant Representative

Asst. Executive Engineer

Asst Executive Engineer

BBMP